L39

L40

=> d his; d tot ibib abs (FILE 'HOME' ENTERED AT 22:01:57 ON 22 JAN 2006) FILE 'CAPLUS' ENTERED AT 22:04:15 ON 22 JAN 2006 2668400 S PREPN/IA L143971 S (FATTY(3W)ESTER#)/IA L2L31013987 S (FAT# OR OIL#)/IA 232222 S ALCOHOL/IA L42325360 S WATER/IA L5 483 S L1(4W)L2 L66 S L6 AND L3 AND L4 AND L5 L7 29335 S ((FATTY(2W)ACID)(3W)ESTER#)/IA 18 403 S L1(4W)L8 L9 5 S L9 AND L3 AND L4 AND L5 L10 0 S L10 NOT L7 L11 FILE 'USPATFULL' ENTERED AT 22:08:54 ON 22 JAN 2006 L12 57247 S ((FATTY(2W)ACID)(3W)ESTER#) 65407 S (FATTY(3W)ESTER#) L13 664333 S (FAT# OR OIL#) L14487274 S ALCOHOL# L15 1271298 S WATER L16 ACT PREPS PREPS/Q QUE PREPAR? OR METHOD OR MAKING L17 3070795 S L17 L18 L19 974 S L18(4W)L12 L20 699 S L19 AND L14 AND L15 AND L16 5921 S 554/NCL L21 L22 162 S L21 AND L20 L23 918 S L12 AND L14 AND L15 AND L16 AND L21 L24 3 S SUBCRITCAL L25 1756 S SUBCRITICAL L26 5 S L20 AND L25 L27 3 S SAKA SHIRO/IN, AU FILE 'CAPLUS' ENTERED AT 22:16:21 ON 22 JAN 2006 2412 S SUBCRITICAL?/IA L28 L29 0 S L9 AND L28 118 S SAKA SHIRO/IN.AU L30 L31 7 S L2 AND L30 11 S L9 AND L3 AND L4 L32 L33 6 S L32 NOT L7 L34 6 S L33 NOT L10 SEL L34 1 PI FILE 'WPIDS' ENTERED AT 22:24:30 ON 22 JAN 2006 L35 0 S E1 L36 0 S IN182417/PN E IN182417/PN L37 89 S (BIODIESEL (3W) FUEL#) FILE 'CAPLUS' ENTERED AT 22:28:08 ON 22 JAN 2006 L38 607 S (BIODIESEL(3W)FUEL#)/IA

L40 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2006 ACS on STN ACCESSION NUMBER: 2004:376128 CAPLUS

2 S L6 AND L38

1 S L6 AND L38 AND L3 AND L4

DOCUMENT NUMBER:

141:143092

TITLE:

Two-step preparation for catalyst-free

biodiesel fuel production:

Hydrolysis and methyl esterification

AUTHOR(S):

Kusdiana, Dadan; Saka, Shiro

CORPORATE SOURCE:

Graduate School of Energy Science, Kyoto University,

Kyoto, 606-8501, Japan

SOURCE:

Applied Biochemistry and Biotechnology (2004),

113-116, 781-791

CODEN: ABIBDL; ISSN: 0273-2289

PUBLISHER:

Humana Press Inc.

DOCUMENT TYPE:

AB

Journal English

LANGUAGE:

Biodiesel fuel was prepd. by a two-step reaction:

hydrolysis and Me esterification. Hydrolysis was carried out at a subcrit. state of water to obtain fatty acids from triglycerides of rapeseed oil, while the Me esterification of the hydrolyzed products of triglycerides was treated near the supercrit. methanol condition to achieve fatty acid Me esters. Consequently, the two-step prepn. converts rapeseed oil to fatty acid Me esters in considerably shorter reaction time and milder reaction condition than the direct supercrit. methanol treatment. The optimum reaction condition in this two-step prepn. was 270.degree. and 20 min for hydrolysis and Me esterification, resp. Variables affecting the yields in hydrolysis and Me esterification are discussed.

REFERENCE COUNT:

THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS 17 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L40 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:

2001:397069 CAPLUS

DOCUMENT NUMBER:

134:365821

TITLE:

Process for producing fatty acid lower alcohol ester

INVENTOR(S):

Fukuda, Hideki; Noda, Hideo

PATENT ASSIGNEE(S):

Kansai Chemical Engineering Co., Ltd., Japan

SOURCE:

PCT Int. Appl., 36 pp. CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

Japanese

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001038553	A1	20010531	WO 2000-JP8185	20001120
W: AU, CA, CN,	JP. KR	. US		

RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR

US 6982155 PRIORITY APPLN. INFO.:

B1 20060103 US 2002-130977 20020524 JP 1999-336681 A 19991126 WO 2000-JP8185 W 20001120

A process for efficiently producing a fatty acid ester at a low cost which comprises reacting an immobilized intact microorganism producing lipase with a fat or an oil and a liner lower alc. in a system contg. little or no solvent in the presence of water. Because the intact microorganism does not receive any solvent-treatment the prepn. of fatty acid ester is simple. The fat is selected from natural fats, and oils such as vegetable fats and oils, and animal fats and oils or waste oils thereof. Therefore, a waste oil contg. much moisture is usable as the starting material, which makes it possible to recycle waste oils and, at the same time, provide a biodiesel

fuel with little environmental pollution.

REFERENCE COUNT:

THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS 12 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT